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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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SNELL & WILMER ONE ARIZONA CENTER 400 EAST VAN BUREN PHOENIX, AZ 850040001			MISTRY, O NEAL RAJAN	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/055,520	Applicant(s) OGAWA ET AL.	
	Examiner O'Neal R Mistry	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 January 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This application has been examined.
2. Claims 1-19 are presented for examination.

Priority

3. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 2001-015133, filed on January 23, 2001.

Drawings

4. The Examiner contends that the drawings submitted on January 23, 2001 are acceptable for the examination proceedings.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-4,6-9,12,15-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Yourlo (U.S. Patent Number 6,201,176).

6. In regards to claim 1, Yourlo discloses an audio information provision system for providing a target with an audio information stream suitable to the target comprising:

a database for storing a plurality of audio information streams (col. 3 lines 19-20)

[there is provided a method for querying a music database];

an inherent condition input section for receiving an inherent condition of the target [A request is formed which specifies either a name of a piece of music, or features characterising the piece of music. The request also forms at least one conditional expression.]; The examiner interprets that condition of the input can be determined as the name of the song, the artist name, or the album name. This would allow a user to locate in a database.

a variable condition input section for receiving a variable condition varying in accordance with time (col. 12 lines 34-44) [This piece of music is shown to have a tempo of 1 Hz (or 60 beats/min) (ie 1800) for 0.5 or 50% of the time (indicated by a reference numeral 1808) and a beat of 2 Hz (or 120 beats/minute) (ie 1802) for 50% of the time (indicated by a reference numeral 1808). The piece of music displays a brightness of 22050 Hz (ie 1804) for 20% of the time (indicated by a reference numeral 1810) and a brightness of 44100 Hz (ie 1806) for 80% of the time(indicated by a reference numeral 1812). FIGS. 19-21 display similar features for pieces of music B-D.]. The examiner interprets that tempo of music has to do with time in

music, and by entering the tempo of a song or the time of a song, the information processing system will display similar songs according the same time.

a selection section for selecting at least one audio information stream from the plurality of audio information streams based on at least the inherent condition and the variable condition (col. 4 lines 43-47) [The server 202 performs a search of the music database based upon user query 104, and then outputs a desired piece of music 106, which is based on the music query 104, across the same network connection 204-206-208.]; and

an output section for outputting the at least one audio information stream (col. 15 lines 47-50) [In addition, the computer system 2200 can have any of a number of other output devices including an audio output card 2210 and output display 2224.].

7. In regards to claim 2, Yourlo states the database stores a plurality of related information streams respectively related to the plurality of audio information streams (col. lines 19-20) [According to one aspect of the invention, there is provided a method for querying a music database, which contains a plurality of pieces of music.],

each of the related information streams has coordinate value representing a position of the corresponding audio information stream in a prescribed coordinate system which defines an impression of audio information streams (col. 3 lines 21-23) [The method involves classifying the pieces of the music in the

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database, using feature extraction. The classification involves segmenting each piece of music into a plurality of windows,] the selection section determines a coordinate value representing a position of the target in the prescribed coordinate system based on the inherent condition and the variable condition, and selects at least one audio information stream corresponding to at least one related information stream having a coordinate value which is located within a prescribed range from the coordinate value representing the position of the target (col. 3 lines 27-32) [A request is formed which specifies either a name of a piece of music, or features characterising the piece of music. The request also forms at least one conditional expression. The method compares the features characterising the specified piece of music to corresponding features characterising other pieces of music in the database,].

8. In regards to claim 3, Yourlo discloses at least one related information stream among the plurality of related information streams includes at least one adjustment information stream which indicates that a distance between a coordinate value included in the at least one related information stream and the coordinate value of the target is adjusted, based on at least one of the inherent condition and the variable condition (col. 4 lines 25-29) [outputs a desired piece of music 106 which is based on the music query 104. The kiosk 102 also outputs music identifiers 108 associated with the desired piece of music 106.

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Such identifiers could include, for example, the name of the piece of music.], and

the selection section changes the coordinate value in the at least one related information stream (col. 4 lines 25-29) [outputs a desired piece of music 106 which is based on the music query 104. The kiosk 102 also outputs music identifiers 108 associated with the desired piece of music 106. Such identifiers could include, for example, the name of the piece of music.].

9. In regards to claim 4, Yourlo states a reserved condition input section for receiving a reserved condition indicating that a preset audio information stream is output by the output section at a preset time, wherein the output section outputs the preset audio information item at the preset time (col. 4 lines 25-29 & col. 15 lines 47-50).

10. In regards to claim 6, Yourlo states the plurality of related information streams further include a plurality of physical feature information streams each representing a physical feature of the corresponding audio information stream of the plurality of audio information streams and a plurality of bibliographical information streams each representing a bibliography of the corresponding audio information stream of the plurality of audio information streams (col. 4 lines 57-60) [desired piece of music 106 and/or music identifiers 108 associated with the desired piece of music 106].

11. In regards to claim 7, Yourlo discloses the selection section is connected to the inherent condition input section, the variable condition input section and the output

section via a communication line (col. 4 lines 30-33) [FIG. 2 illustrates a music database system in a network embodiment. In this embodiment, a plurality of music database servers 202 are connected to a network 206 via access lines].

12. In regards to claim 8, Yourlo states wherein the target is one of a commercial space and a public space (col. 4 lines 18-22). ["kiosk" is a term of art denoting a public access data terminal for use in, for example, information data retrieval and audio output receipt. In this embodiment, the owner/operator of the kiosk 102 inputs pieces of music 100 into the kiosk 102 where they are classified and stored in a database for future retrieval.]. The examiner interprets that if a kiosk is in a public place, that being able to search or listen to the music is also targeted for a public space. This would allow anyone to search for music in the public area.

13. In regards to claim 9, Yourlo discloses the target is an individual. (col. 4 lines 42-44 & col. 4 lines 17-18) [An owner of a client inputs a music query 104 into a client 210, which establishes a connection to the music database server 202 via a network connection] & ["kiosk" is a term of art denoting a public access data terminal for use in, for example, information data retrieval]. The examiner interprets that if a kiosk is in a public place, which is to lure individuals to search for music, that the target is for an individual searching for music.

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the inherent condition represents inherent information of the individual(col. 10 lines 47-49) [(1) a set of names of known pieces of music and a degree of similarity/dissimilarity specified by a conditional expression].

The examiner interprets that by inserting names in know pieces, that is a form of a conditional representation; and

the variable condition represents mood information of the individual [a set of user specified features and a similarity/dissimilarity specification in the form of a conditional expression (e.g. something that has a tempo of around 120 beats per minute, and is mostly loud) .]. The examiner interprets that if user is able to put in the tempo and if the user is feeling sad the user can insert a low tempo, if the user is feeling happy can the user can insert a high tempo, and is a form of expressing a user mood.

14. In regards to claim 12, Yourlo discloses a satisfaction degree information input section for receiving satisfaction degree information representing a satisfaction degree of the individual for the at least one audio information stream (col. 4 lines 43- 47) [The server 202 performs a search of the music database based upon user query 104, and then outputs a desired piece of music 106, which is based on the music query 104].

15. In regards to claim 15, Yourlo discloses the variable condition input section inputs impression information representing an impression of an audio information stream desired by the individual as the mood information (col. 10 lines 54-56 & col. 10 lines 43-45) [a set of names of known pieces of music and a degree of

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similarity/dissimilarity specified by a conditional expression & a set of user specified features and a similarity/dissimilarity specification in the form of a conditional expression].

16. In regards to claim 16, Yourlo states the variable condition input section includes a display section (col. 15 lines 47-50) [In addition, the computer system 2200 can have any of a number of other output devices including an audio output card 2210 and output display 2224.],

the variable condition input section provides the individual with a prescribed coordinate system which defines an impression of audio information streams through the display section (col. 12 lines 1-10) [FIG. 17 illustrates a distance metric used to assess the similarity between two pieces of music where D is the distance between the two pieces of music 1708 and 1710 (only 3 features are shown for ease of representation). In this case, a smaller value of D represents a greater similarity.], and

the impression information is input to the variable condition input section by the individual specifying at least one point in the prescribed coordinate system (col. 12 lines 1-10) [FIG. 17 illustrates a distance metric used to assess the similarity between two pieces of music where D is the distance between the two pieces of music 1708 and 1710 (only 3 features are shown for ease of representation). In this case, a smaller value of D represents a greater similarity.].

17. In regards to claim 17, Yourlo states the prescribed coordinate system includes a plurality of words representing the impression (col. 12 lines 18-23) [The above method will be partially described for a specific query 104 namely "Find a piece of music similar to piece A", where the database contains pieces of music A, B, C, and D. This query 104 is of a type described in FIG. 15 where music identifiers (ie the name of the piece of music "A") and a conditional expression ("similar to") is provided in the query 104.], and the plurality of words are changed in accordance with the type of audio information stream desired by the individual (col. 12 lines 18-23) [The above method will be partially described for a specific query 104 namely "Find a piece of music similar to piece A", where the database contains pieces of music A, B, C, and D. This query 104 is of a type described in FIG. 15 where music identifiers (ie the name of the piece of music "A") and a conditional expression ("similar to") is provided in the query 104.].
18. In regards to claim 18, Yourlo states the prescribed coordinate system has a plurality of image parts. (Figure 17)
19. In regards to claim 19, Yourlo discloses the impression is represented by at least one of a word, a color and a symbol. (col. 12 lines 23-30). The examiner interprets the impression is represented by a symbol. The symbol could be a number that describes the tempo of the music, and expresses the user mood.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

20. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yourlo (U.S. Patent Number 6,201,176) in view of Katinsky et al (U.S. Patent Number 6,452,609).

21. In regards to claim 13, Yourlo shows an audio information system that has the ability to display a plurality of audio information corresponding to the user preferences but does not show a navigational history for the user to refer to while querying the informational handling system for audio history files.

Katinsky shows the individual information accumulation section accumulates a past selection result provided by the selection section (col. 7 lines 23-25) [The contents of site-driven area 18 can also be based on user preferences, a user history, or a user profile.], the audio information provision system further comprises a feedback section for presenting to variable condition input section, as individual preference information representing an individual preference, the past selection result accumulated in the individual information accumulation section (col. 9 lines 63-67) [The user database 1014 maintains information about the content and the status of the play lists in the sequencer. For example, the user database 1014 may include the user's name, password and other personal information, as well as user profile and preference information that might be developed], and the variable condition input section provides the individual with an input interface based on the individual preference information (col. 9 lines 63-67) [The user database 1014 maintains information about the content and the status of the play lists in the sequencer. For example, the user database 1014 may include the user's name, password and other personal information, as well as user profile and preference information that might be developed].

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine the Katinsky, have a viewable history, to Yourlo an audio information system.

The modifications would have been obvious because one of ordinary skill in the art would have been motivated to combine because the developed for utility in the assembly and cross referencing of text content documents with user freedom in navigation, and multimedia developed has focused on interactive but canned content with limited user options. This will also aid the user in finding the proper audio files, quick faster, and more efficient.

22. Claims 5, 10, 11, 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yourlo (U.S. Patent Number 6,201,176) in view of Anderson et al. (U.S. Patent Number 6,625,595)

In regards to claim 5, Yourlo shows an audio information system that has the ability to display a plurality of audio information corresponding to the user preferences but does not show a navigational history for the user to refer to while querying the informational handling system for audio history files, but does not discloses "an economic condition input section for receiving an economic condition representing a desired cost for the at least one audio information stream, wherein the selection section selects at least one audio information stream, based on the economic condition, from among the at least one audio information stream selected from the plurality of audio information streams based on the inherent condition and the variable condition."

Anderson discloses an information retrieval system that dynamically rearranges output queries to be displayed to the user. The display output can be arranged by price, geographical locations, hours of operation, and etc. Anderson also shows an economic condition input section for receiving an economic condition representing a desired cost for the at least one audio information stream, wherein the selection section selects at least one audio information stream, based on the economic condition, from among the at least one audio information stream selected from the plurality of audio information streams based on the inherent condition and the variable condition. (col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.]& [Each possible category relates to a different aspect that differentiates between the search results, such as geographical location, hours of operation, amenities, etc.]. The examiner interprets that the information being outputted to the screen does not only have to be an audio file. A file is data structure that contains sets of information, and in Anderson the "output results" is a set

of information that is being sort for user preference, which includes price and geographical location.

It would have been obvious to a person of ordinary skill in the art at the time of the invention was made to combine Anderson, information retrieval system with dynamical rearranging output, with Yourlo, an audio information system.

The modifications would have been obvious because one of ordinary skill in the art would have been motivated to combine because there is a need for a system and method of formatting the results produced by a query search on a information handling system to provide usable and easily discernable information.

23. In regards to claim 10, Yourlo & Anderson states an economic condition input section for receiving an economic condition representing a desired cost for the at least one audio information stream (Anderson, col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.] & [Each possible category relates to a different aspect that differentiates between the search results,

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such as geographical location, hours of operation, amenities, etc.]. The examiner interprets that the information being outputted to the screen does not only have to be an audio file. A file is data structure that contains sets of information, and in Anderson the "output results" is a set of information that is being sort for user preference, which includes price and geographical location;

a mood information analysis section for analyzing the mood information and outputting a mood information analysis result (Yourlo, col. 4 lines 22-26) [a set of user specified features and a similarity/dissimilarity specification in the form of a conditional expression (e.g. something that has a tempo of around 120 beats per minute, and is mostly loud) .]. The examiner interprets that if user is able to put in the tempo and if the user is feeling sad the user can insert a low tempo, if the user is feeling happy can the user can insert a high tempo, and is a form of expressing a user mood; and

an individual information accumulation section for accumulating the inherent information, the mood information analysis result and the economic condition (Yourlo, col. 10 lines 47-49 & lines 54-56) [a set of names of known pieces of music and a degree of similarity/dissimilarity specified by a conditional expression (shown underlined) for each piece & a set of user specified features and a similarity/dissimilarity specification in the form of a conditional expression],

wherein the selection section selects at least one audio information stream, based on the economic condition, from among the at least one audio information stream selected from the plurality of audio information streams based on the inherent information and the mood information analysis result. (Anderson, col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.] & [Each possible category relates to a different aspect that differentiates between the search results, such as geographical location, hours of operation, amenities, etc.]. The examiner interprets depending on the user preference; the user has the ability to sort the output information, by geographic location, price, and any such category.

24. In regards to claim 11, Yourlo & Anderson discloses the mood information analysis result and the economic condition are accumulated in the individual information accumulation section as individual preference information representing an individual preference condition (Yourlo, col. 10 lines 47-49 & lines 54-56) [a set of user

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specified features and a similarity/dissimilarity specification in the form of a conditional expression (e.g. something that has a tempo of around 120 beats per minute, and is mostly loud).]. The examiner interprets that if user is able to put in the tempo and if the user is feeling sad the user can insert a low tempo, if the user is feeling happy can the user can insert a high tempo, and is a form of expressing a user mood;and

the individual preference information is updated each time the mood information analysis result and the economic condition are input to the individual information accumulation section (Anderson, col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.] & [Each possible category relates to a different aspect that differentiates between the search results, such as geographical location, hours of operation, amenities, etc.]. The examiner interprets depending on the user preference; the user has the ability to sort the output information, by geographic location, price, and any such category.

25. In regards to claim 14, Yourlo & Anderson states an economic condition input section for receiving an economic condition representing a desired cost for the at least one audio information stream (Anderson, col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.] & [Each possible category relates to a different aspect that differentiates between the search results, such as geographical location, hours of operation, amenities, etc.]. The examiner interprets that the information being outputted to the screen does not only have to be an audio file. A file is data structure that contains sets of information, and in Anderson the "output results" is a set of information that is being sort for user preference, which includes price and geographical location;

a mood information analysis section for analyzing the mood information and outputting a mood information analysis result (Yourlo, col. 4 lines 22-26) [a set of user specified features and a similarity/dissimilarity specification in the form of a conditional expression (e.g.

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something that has a tempo of around 120 beats per minute, and is mostly loud) .]. The examiner interprets that if user is able to put in the tempo and if the user is feeling sad the user can insert a low tempo, if the user is feeling happy can the user can insert a high tempo, and is a form of expressing a user mood; and

an individual information accumulation section for accumulating the inherent information, the mood information analysis result and the economic condition, wherein the selection section selects at least one audio information stream from the plurality of audio information streams based on instruction information from a musicotherapist based on the inherent information, the mood information analysis result and the economic condition (Anderson, col. 7 lines 35-43 & col. 2 lines 43-46) [The system then determines the categories for sorting the unprocessed output in step 39. In many circumstances, the system will sort the output results according geographical location. For example, a search for a car wash will likely be sorted by location. However, depending upon the dialogue in steps 31 and 32, the system may sort according to other attributes, such as amenities, hours of operation, price, brand, etc. The category determination is determined in Categories Generator 25 in FIG. 2.] & [Each possible category relates to a different aspect that differentiates between the search results, such as geographical location, hours of operation, amenities, etc.].


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to O'Neal R Mistry whose telephone number is (703) 305-2738. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W Cabeca can be reached on (703)308-3116. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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